+135-3858-6433 (GuangDong)
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TEKNOR APEX

Monprene® SP-14943 CLR

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Monprene SP-14943 CLR is a high performance thermoplastic elastomer designed for a variety of industrial and consumer product applications requiring a soft, rubber-like feel. Monprene SP-14943 CLR is a low density, low hardness, RoHS compliant grade suitable for injection molding.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose • Good Colorability • Good Moldability • High Clarity • High Elongation	• High Flow • Low Density • Low Hardness • Low Specific Gravity • Slip	• Sunlight Resistant • UV Resistant • Without Fillers
Uses	• Consumer Applications • Flexible Grips	• General Purpose • Industrial Applications	• Rubber Replacement • Water Sports Equipment
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.882		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.8	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	116	psi	ASTM D412
Tensile Strength (Break)	1120	psi	ASTM D412
Tensile Elongation (Break)	> 800	%	ASTM D412
Compression Set			ASTM D395
73°F, 22 hr	17	%	
158°F, 22 hr	67	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	42		ASTM D2240
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity	155	Pa·s	ASTM D3835

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	360 to 450	°F
Middle Temperature	370 to 460	°F

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Injection	Nominal Value	Unit
Front Temperature	380 to 470	°F
Nozzle Temperature	390 to 480	°F
Processing (Melt) Temp	390 to 480	°F
Mold Temperature	60 to 90	°F
Injection Pressure	200 to 800	psi
Injection Rate	Fast	
Back Pressure	25.0 to 100	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in

Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Notes

[1] Typical properties: these are not to be construed as specifications.